

MICRON 'EZEKEY' ACCESS CONTROL KEYPAD

FEATURES:

- Programmable Master Code (up to 6 digits long) to program EzeKey.
- Ninety programmable access codes, each up to 6 digits in length.
- Technician code. Disables / enables all keypad functions including beeper output. Technician control of outputs 1 or 2.
- No relay required for output #1. Drives 'strikes' or 'mag locks' direct.
- Outputs are programmable for latching or momentary operation.
- Bell output . Activated when the 'star' key is pressed.
- Two LED's. Output #2 LED may be selected for external control and/or slaved to output 2.
- LED indicator for power on and programming status.
- Night lock facility for 'multi level' lock disable.
- Egress entry input. Use to activate output #1.
- Audible indication of key-presses and programming progress.
- Retains all programmed data when powered down.
- Selectable fast arming (single digit) facility for each output

DESCRIPTION OF THE FEATURES:

Night Lock

When a night lock code is entered for a specific output (1 or 2), the keypad will not accept any **non** night lock codes that control that output, or signals from the egress input, until another night lock code is received.

Bell Output.

This output pulls to ground when the 'star' key is pressed. The output remains active until the 'star' key is released.

Egress Input

When this input is pulled to ground, Output 1 will activate.

Fast Arming

If "latch with fast arm" is selected for the output control (location 99) then entering a **1** or **2** followed by **#** will latch, **but not unlatch**, the corresponding relay. This feature may only be enabled in 'latch' mode.

Technician Code (Default code **110000**)

Any one of the following control digits may follow the T code.

- 1 = activate output 1.
- 2 = activate output 2.
- 3 = activate outputs 1 and 2.
- 8 = unlock keypad.
- 9 = lock keypad. Keypad ceases normal operation.

LED OPERATION:

The green power LED;

- Remains steady during normal operation.
- Flashes during programming.
- Flashes when awaiting an area number for area selectable codes.

The red lock LED's mimic outputs **1** and **2** (jumper selectable)

BEEPER OPERATION:

Normal Operation.

- Normal keypress - keypad beeps once when a key is pressed.
- Valid code - keypad beeps three times.
- Invalid code - keypad gives 1 long beep.

Programming;

- Beeper beeps once on each key press.
- Beeper beeps twice for a correct entry.
- Beeper beeps one long beep on an incorrect entry.
- Beeper beeps three times for a successful completion of a programming sequence.

Shunts:

There are three shunts on the back of the circuit board. This first two shunts control the operation of the two LED's and the third provides a method of entering programming mode when the master code has been lost or forgotten.

LED Control – when the shunts are in place the LED's are linked to the state of the two outputs as well as being able to control them by grounding their respective wires. When the shunts are removed the LED's are controlled only by grounding their respective wires.

Programming Entry - If this shunt is closed ***when power is applied*** the keypad will jump into programming mode when the shunt is reopened. While the shunt is closed the keypad will beep continuously until the shunt is removed.

If all else fails - In the event of a catastrophic programming error that leaves EzeKey inoperable the following method may be used to default **ALL** programming back to factory settings.

1. Remove power from EzeKey. Place programming shunt across pins.
2. Apply power. EzeKey beeps continuously. Remove shunt. Beeper stops.
3. Replace the programming shunt. EzeKey beeps TWICE.
4. Remove then replace shunt. EzeKey beeps THREE times then cleans out all programmed data, restores the factory default settings and then beeps continuously until the shunt is removed.

KEYPAD OPERATION: Programming

Master code: (default **0000**)

- (old master **code**) + # + **00** + # + (new master **code**) + # .

User access codes:

- (master **code**) + # + (**id**) + # + (new access **code**) + # + (**user code status**)

User Code Status

- | | |
|---|--------------------------------------------|
| 1 | Operates output 1. |
| 2 | Operates output 2. |
| 3 | Operates output 1 and 2 simultaneously. |
| 4 | Operates output 1 or 2. |
| 5 | 'Nite Lock' output 1. |
| 6 | 'Nite Lock' output 2. |
| 7 | 'Nite Lock' outputs 1 and 2. |
| 8 | 'Nite Lock' outputs 1 and 2, no activation |

Selecting Keypad Lockout after 8 Incorrect Codes:

- (master **code**) + # + **97** + # + (1 = lockout or **0** = no lockout)

Technician Code: (default **110000**)

- (master **code**) + # + **98** + # + (new tech **code**) + #

Output Operation:

- (master **code**) + # + **99** + # + (output **number**) + (output control **number**)

Delete User-code by Code:

- (master **code**) + # + **91** + # + (User **code** to be deleted) + #

Delete User-code by ID Number:

- (master **code**) + # + **92** + # + (ID number of **code** to be deleted) + #

Output Control

- | | |
|----|------------------------------------------------|
| 1 | Momentary 0.5 second. |
| 2 | Momentary 1 second. |
| 3 | Momentary 2 second. |
| 4 | Momentary 4 second. |
| 5 | Momentary 8 second. |
| 6 | Momentary 16 second. |
| 7 | Momentary 32 second. |
| 8 | Latch / Unlatch output (no fast arm permitted) |
| 9. | Latch / Unlatch output (no fast arm permitted) |

Operational Procedures.

Operating Outputs:

- (access code) + #

Quick Arm:

- output number (**1** or **2**) + #

Technician Code Lock:

- (tech code) + # + **9**

Technician Code Unlock:

- (tech code) + # + **8**

Technician Code Output Operation:

- (tech code) + # + (output number)

Wiring

Loom

(white)	Output 2. Sink.	(Loads exceeding 100mA may cause permanent damage)
(orange)	Output 1. Sink.	(3A Continuous, 5A Momentary) See <u>Notes</u> below.
(brown)	LED 1 Control	(Switch this wire to Neg Ve to turn on Led 1.)
(blue)	LED 2 Control	(Switch this wire to Neg Ve to turn on Led 2.)
(green)	Egress Input	(Switch this wire to Neg Ve to activate Egress.)
(yellow)	Bell Output.	(Sink, Max rating 100 mA)
(black)	-12V Input	
(red)	+12V Input	

NOTE1: For high current Output #1 connect heavy loads such as strikes and mag locks **between the red (+ve) and 'orange' (load) wires**. Do not connect the 'orange wire to positive (+ve) or permanent damage will result.

NOTE2: **Sink outputs should have the load connected between the output in use and the positive (+Ve) supply.** The output switches to ground (-Ve) when activated.

Shunts

- o-o Shunt closed = LED 1 linked to output 1
Shunt open = LED 1 controlled externally only
- o-o Shunt closed = LED 2 linked to output 2
Shunt open = LED 2 controlled externally only
- o o Shunt closed on power up enters programming mode when opened.
Also used to return all EzeKey programming to factory defaults

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